



U.S. Department
of Transportation
Federal Aviation
Administration

Advisory Circular

Subject: MAINTENANCE PROGRAM APPROVAL
FOR CARRY- OXYGEN EQUIPMENT
FOR MEDICAL PURPOSES

Date: 9/26/83
Initiated by: AWS-300

AC No: 135-5B
Change:

1 PURPOSE. This advisory circular is to provide a means whereby air taxi operators may **submit** a maintenance program to comply with Part 135, Section 135.91, of the Federal Aviation Regulations.

2. CANCELLATION. Advisory Circular 135-5A, dated November 23, 1976, is cancelled.

3. BACKGROUND. Section 135.91(a)(1)(ii) requires that equipment used for storage, generation, or dispensing of oxygen, and carried aboard aircraft, when owned by the certificate holder, must be maintained in accordance with the certificate holder's approved maintenance program. FAR Part 135 does **not prescribe** specific rules for **maintenance** and test of pressure cylinders; however, when approved by the Administrator, the provisions of Operations Specifications are rules which require precisely the **same** consideration as the Federal Aviation Regulations. In exercising this authority, the Administrator has, in the interest of safety, adopted the rules and regulations of the Department of Transportation (DOT) as an acceptable method for controlling the hydrostatic and life limits of pressure cylinders through Operations Specifications.

4. GENERAL. Air taxi operators wishing to submit a maintenance program **required by** Section 135.91 should be **encouraged** to contact their certificate holding **district** office prior to **development of** their program. In this **manner**, both the operator and the Federal Aviation Administration (FAA) inspector will become mutually aware of the elements necessary for FAA approval.

5 APPLICATION OF 49 CFR, SECTION 173.301(c). Section 173.301(c), Retest of Container, states: "A container for which prescribed periodic retest has become due **must not be** charged and shipped until such retest has been properly made."

a. Pressure cylinders used as aircraft equipment which remain charged or partially charged on the due date of their hydrostatic test may **remain** in service beyond the test date providing that the cylinder is retested prior to its next full or partial refilling.

b Standards used for approval of pressure cylinders are those established by the **DOT**, Research and Special Programs Administration, Materials Transportation Bureau. The manufacturing standards and maintenance specifications that pressure cylinders **must meet** to be eligible for transportation purposes are prescribed in 49 CFR, Chapter 1, Parts 100-199.

6 PREPARATION OF OPERATIONS SPECIFICATIONS, FAA FORM 1014, (OMB-04-R0075).

Air taxi operators wishing to submit a maintenance program for carry-on oxygen **equipment** should submit an application to amend their Operations Specifications. Operations Specifications are prepared by the operator using FAA Form 1014. The format shown in Figure 1 should be used for amending Operations Specifications relating to the inspection and **maintenance** of pressure cylinders. It is not intended to list all pressure cylinders on one page. Figure 1 illustrates the various systems which use pressure cylinders and how they will be listed when entering them in the proper sequence and **ATA** chapter of the approved Operations Specifications. (An example of an acceptable application for **amendment** of Operations Specifications is **shown** in Figure 2.) Before approval of a maintenance program, the inspector reviewing the program will consider:

a. If the schedule for the performance of the inspection and **maintenance**, whether it be by the time in service, calendar time, system cycles, or by combination, is adequate and in accordance with the provisions of **49 CFR, Part 173**, currently in effect.

b. If the instructions and procedures for the conduct of the maintenance program, including the necessary checks and tests, are in sufficient detail for the maintenance personnel to correctly perform the maintenance without further guidance.

7. REVIEW AND APPROVAL. Operations Specifications - Aircraft-Maintenance - Part D, will be reviewed for accuracy and completeness. **Operations** Specifications **may** be approved only **by** those inspectors authorized to perform such functions. (An example of an acceptable **Operations** Specification is shown in Figure 1.)



J. A. Pontecorvo
Acting Director of Airworthiness

FIGURE 1. OPERATIONS SPECIFICATIONS - Aircraft Maintenance

Part D	UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WASHINGTON	Form Approved. OMB No. 04-R0075
OPERATIONS SPECIFICATIONS Aircraft Maintenance		
	<u>Overhaul Period</u>	<u>Inspection & Check Period</u>
<u>Oxygen, Chapter 35</u>		
Bottle - Oxygen Portable (DOT-3A)	5 or 10 years*	(See 49 CFR, Section 173.34(e)(11), (e)(14), and (e)(15).)
Bottle - Oxygen Crew (DOT-3HT)	3 years*	(See 49 CFR, Section 173.34(e)(13).)
Bottle - Oxygen Passenger (DOT-3HT)	3 years*	
*Inspections, hydrostatic tests, and life limits will be accomplished as set forth in Part 173, Chapter 1, Subtitle B of 49 CFR currently in effect.		
Effective date _____		

9/26/83

FIGURE 2. OPERATIONS SPECIFICATIONS - Reverse

FEDERAL AVIATION ADMINISTRATION
Washington, D.C.

Operating Certificate No. 16-EA-2

ABC Air, Inc. hereby makes application for amendment
of the Operations Specifications appearing on the reverse side hereof, as follows:

To establish an approved maintenance program for carry-on oxygen equipment
for medical purposes for aircraft operated by ABC Air, Inc.

Reasons and supporting data (if insufficient space attach additional page):

To comply with Section 135.91.

I CERTIFY that the statements submitted in connection herewith are true and that I am duly authorized
to make this application on behalf of the applicant.

(to be signed by applicant)
(Signature)

Date May 5, 1983

President
(Title)

INSPECTOR'S RECOMMENDATIONS:

(Signature)

(Title)

The Operations Specifications set forth on the reverse side hereof are

Amendment No.

By direction of the Administrator:

Effective date

(Signature)

Supersedes specifications dated

(Title)

Received for the applicant by:

(Signature)

Date

(Title)